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8521

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RAW SEQUENCE LISTING

DATE: 08/23/2002

PATENT APPLICATION: US/10/040,884

TIME: 12:04:24

Input Set : N:\Crf3\RULE60\10040884.raw

Output Set: N:\CRF3\08232002\J040884.raw

1 <110> APPLICANT: ZENECA Limited
 2 <120> TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE
 3 <130> FILE REFERENCE: 70332/US.Substantive
 4 <140> CURRENT APPLICATION NUMBER: 10/040,884
 5 <141> CURRENT FILING DATE: 2002-01-07
 7 <150> PRIOR APPLICATION NUMBER: US/09/310,438
 8 <151> PRIOR FILING DATE: 1999-05-28
 10 <150> PRIOR APPLICATION NUMBER: US 60/088,958
 11 <151> PRIOR FILING DATE: 1998-06-11
 12 <160> NUMBER OF SEQ ID NOS: 6
 13 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 2607
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Homo Sapiens
 19 <400> SEQUENCE: 1

ENTERED

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21	gaaggggaca	gccctgtggc	aatgggcatg	acacggatgc	tcctggaatg	cagtctcagt	120
22	gacaagtgtg	gtgtcatcca	ggagaagcag	tatgaagtga	ttatcgtccc	aactttgttg	180
23	gttactatct	tcctcatcct	tcttggggtc	atcctgtggc	tttttatcag	agaacaaaga	240
24	actcaacagc	agcgttcttg	acctcaaggc	attgcccctg	ttcctccacc	tagggacctt	300
25	agctgggaag	caggacatgg	aggaaatgtg	gctttgccac	ttaaggagac	atccgtggaa	360
26	aactttcttg	gagctaccac	acctgcccctg	gctaagctgc	aggtgccgcg	ggagcaactc	420
27	tctgaagtgc	tggagcagat	ttgcagtggg	agctgtgggc	ccatctttcg	agccaatatg	480
28	aacactgggg	accctttctaa	gcccaagagt	gttattctca	aggcttttaa	agaaccagct	540
29	gggctccatg	aggtacaaga	tttcttaggg	cgaatccaat	tccatcaata	cctggggaaa	600
30	cacaaaaacc	tgggtgcagct	ggaaggctgc	tgcactgaaa	agctgccact	ctatatgggtg	660
31	ttggaggatg	tggcccaggg	ggacctgctc	ggctttctct	ggacctgtcg	gcgggatgtg	720
32	atgactatgg	atggtcttct	ctatgatctc	acagaaaaac	aagtatatca	catcggaag	780
33	caggtccttt	tggcgctgga	attcctgcag	gagaagcatt	tgttccatgg	ggatgtggca	840
34	gccaggaata	ttctgatgca	aagtgatctc	actgctaagc	tctgtggatt	aggcctggct	900
35	tatgaagttt	acacccgagg	ggccatctcc	tctaactcaa	ccatacctct	caagtggctt	960
36	gccccagaac	ggctttctct	gagacctgct	agcatcagag	cagatgtctg	gtcttttggg	1020
37	atcctgctct	atgagatggg	gactctagga	gcaccaccgt	atcctgaagt	ccctcctacc	1080
38	agcatcctag	agcatctcca	agaaggaaa	atcatgaaga	gacccagtag	ctgcacacat	1140
39	accatgtaca	gtatcatgaa	gtcctgctgg	cgctggcgctg	aggctgaccg	cccctcacct	1200
40	agagagctgc	gcttgccgct	agaagctgcc	attaaaactg	cagatgacga	ggctgtgtta	1260
41	caagtaccag	agttgggtgg	acctgaactg	tatgcagctg	tggccggcat	cagagtggag	1320
42	agcctcttct	acaactatag	catgctttga	agagtctcgg	gcaagaaaca	ttcatgcatg	1380
43	agtatatgtt	cttggaatca	attcctctaa	gaacagagaa	tggcttttcc	cagggaacaca	1440
44	aaggagaaaa	tgggacatgg	attcttgatc	ttccttttaca	catttctcgg	gaaatctgaa	1500
45	atgatgctgg	atgggactct	acacatcctg	agctaagaca	tactgtcagt	ctcacttctg	1560
46	ctgtcccagt	cctagaaatc	ctgggtagaa	gtgggtggacc	tgtgcaaagg	aggttttaga	1620

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47	actctgcagt	atattgttggg	gcatggcaca	aataagctca	tccctcccgt	ccgaggctag	1680
48	tttcctctgg	aaccacattt	ttatctagat	gaaaatttgg	aatgaaatga	aggaatagaa	1740
49	atccaataaa	agagttgaag	ggaaagaaaa	tttaagggtc	ttcttgctca	ggattacaga	1800
50	tatggaccaa	cacctccttc	aagaaaagg	ggtaggacac	aaagttcttc	agtcctgagc	1860
51	cctacatgtg	gggctggagg	agaactataa	cggaaaaacc	tctgagtttc	accttaggta	1920
52	tagataaaa	aaagatgggc	ccctttttatc	tgattctgag	acaggtaaat	tctgtttgtt	1980
53	actacgttta	attagaaggt	ggaggagtc	tttcatgatt	aagaacattc	aacatgtatt	2040
54	gttcattaag	ctagcttcct	agttccgatt	agactaagga	gactaagcct	agagagtcaa	2100
55	tgtagaaca	gtgaaaagaa	ttctgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgcacaata	2160
56	aataggaaat	gtagaaacca	agcaagaagg	cttagtagct	cagtctttaa	caagggctag	2220
57	aaaagaatgt	aatctgatat	ggaaggatag	cagcttctaa	ttttcaatca	tctgttgata	2280
58	tactgtgaaa	cttattttat	taaattaata	tttattaaat	ggaaatatgc	ttttctggtt	2340
59	tataactact	aaaaatatca	tagggaggat	aaaagtaaat	aagtgaaggt	taatgccaat	2400
60	agaaaaattc	aagagataat	gtacaatgtc	agaaaaggga	ttctttatgt	gtaaatgggg	2460
61	ataataccta	tttcacaagg	ttgttytgag	gattgatagc	ttttgagtat	gtattttgtac	2520
62	actatctggc	acatatgcgc	tcaataaacg	tgtttctcct	taaaaaaaaa	aaaaaaaaaa	2580
63	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa				2607

65 <210> SEQ ID NO: 2

66 <211> LENGTH: 1269

67 <212> TYPE: DNA

68 <213> ORGANISM: Homo Sapiens

69 <400> SEQUENCE: 2

70	atgggcatga	cacggatgct	cctggaatgc	agtctcagtg	acaagttgtg	tgtcatccag	60
71	gagaagcagt	atgaagtgat	tatogtccca	actttgttgg	ttactatctt	cctcatcctt	120
72	cttgggggtca	tctgttggct	ttttatcaga	gaacaaagaa	ctcaacagca	gcgttctgga	180
73	cctcaaggca	ttgcccctgt	tcctccacct	agggacctaa	gctgggaagc	aggacatgga	240
74	ggaaatgtgg	ctttgccact	taaggagaca	tccgtgaaa	actttctggg	agctaccaca	300
75	cctgccctgg	ctaagctgca	ggtgccgcgg	gagcaactct	ctgaagttct	ggagcagatt	360
76	tgcagtggta	gctgtgggcc	catctttcga	gccaatatga	acactgggga	cccttctaag	420
77	cccaagagtg	ttatttctca	ggctttaaaa	gaaccagctg	ggctccatga	ggtacaagat	480
78	ttcttagggc	gaatccaatt	ccatcaatac	ctggggaaac	acaaaaacct	ggtgcagctg	540
79	gaaggctgct	gcactgaaaa	gctgccactc	tatatggtgt	tggaggatgt	ggcccagggg	600
80	gacctgctcg	gctttctctg	gacctgtcgg	cgggatgtga	tgactatgga	tggcttcttc	660
81	tatgatctca	cagaaaaaca	agtatatcac	atcggaaagc	aggtcctttt	ggcgtctgga	720
82	ttcctgcagg	agaagcattt	gttccatggg	gatgtggcag	ccaggaatat	tctgatgcaa	780
83	agtgatctca	ctgctaagct	ctgtggatta	ggcctggctt	atgaagttaa	cacccgaggg	840
84	gccatctcct	ctactcaaac	catacctctc	aagtggcttg	cccagaacg	gcttctcctg	900
85	agacctgcta	gcatcagagc	agatgtctgg	tcttttggga	tcctgtctta	tgagatgggtg	960
86	actctaggag	caccaccgta	tcctgaagtc	cctcctacca	gcatcctaga	gcatctccaa	1020
87	agaaggaaaa	tcatgaagag	acccagtagc	tgcacacata	ccatgtacag	tatcatgaag	1080
88	tcctgctggc	gctggcgtga	ggctgaccgc	ccctcaccta	gagagctgcg	cttgccgcta	1140
89	gaagctgcca	ttaaaactgc	agatgacgag	gctgtgttac	aagtaccaga	gttggtggta	1200
90	cctgaactgt	atgcagctgt	ggccggcatc	agagtggaga	gcctcttcta	caactatagc	1260
91	atgctttga						1269

93 <210> SEQ ID NO: 3

94 <211> LENGTH: 422

95 <212> TYPE: PRT

96 <213> ORGANISM: Homo Sapiens

97 <400> SEQUENCE: 3

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98 Met Gly Met Thr Arg Met Leu Leu Glu Cys Ser Leu Ser Asp Lys Leu
99 1 5 10 15
100 Cys Val Ile Gln Glu Lys Gln Tyr Glu Val Ile Ile Val Pro Thr Leu
101 20 25 30
102 Leu Val Thr Ile Phe Leu Ile Leu Leu Gly Val Ile Leu Trp Leu Phe
103 35 40 45
104 Ile Arg Glu Gln Arg Thr Gln Gln Gln Arg Ser Gly Pro Gln Gly Ile
105 50 55 60
106 Ala Pro Val Pro Pro Pro Arg Asp Leu Ser Trp Glu Ala Gly His Gly
107 65 70 75 80
108 Gly Asn Val Ala Leu Pro Leu Lys Glu Thr Ser Val Glu Asn Phe Leu
109 85 90 95
110 Gly Ala Thr Thr Pro Ala Leu Ala Lys Leu Gln Val Pro Arg Glu Gln
111 100 105 110
112 Leu Ser Glu Val Leu Glu Gln Ile Cys Ser Gly Ser Cys Gly Pro Ile
113 115 120 125
114 Phe Arg Ala Asn Met Asn Thr Gly Asp Pro Ser Lys Pro Lys Ser Val
115 130 135 140
116 Ile Leu Lys Ala Leu Lys Glu Pro Ala Gly Leu His Glu Val Gln Asp
117 145 150 155 160
118 Phe Leu Gly Arg Ile Gln Phe His Gln Tyr Leu Gly Lys His Lys Asn
119 165 170 175
120 Leu Val Gln Leu Glu Gly Cys Cys Thr Glu Lys Leu Pro Leu Tyr Met
121 180 185 190
122 Val Leu Glu Asp Val Ala Gln Gly Asp Leu Leu Gly Phe Leu Trp Thr
123 195 200 205
124 Cys Arg Arg Asp Val Met Thr Met Asp Gly Leu Leu Tyr Asp Leu Thr
125 210 215 220
126 Glu Lys Gln Val Tyr His Ile Gly Lys Gln Val Leu Leu Ala Leu Glu
127 225 230 235 240
128 Phe Leu Gln Glu Lys His Leu Phe His Gly Asp Val Ala Ala Arg Asn
129 245 250 255
130 Ile Leu Met Gln Ser Asp Leu Thr Ala Lys Leu Cys Gly Leu Gly Leu
131 260 265 270
132 Ala Tyr Glu Val Tyr Thr Arg Gly Ala Ile Ser Ser Thr Gln Thr Ile
133 275 280 285
134 Pro Leu Lys Trp Leu Ala Pro Glu Arg Leu Leu Leu Arg Pro Ala Ser
135 290 295 300
136 Ile Arg Ala Asp Val Trp Ser Phe Gly Ile Leu Leu Tyr Glu Met Val
137 305 310 315 320
138 Thr Leu Gly Ala Pro Pro Tyr Pro Glu Val Pro Pro Thr Ser Ile Leu
139 325 330 335
140 Glu His Leu Gln Arg Arg Lys Ile Met Lys Arg Pro Ser Ser Cys Thr
141 340 345 350
142 His Thr Met Tyr Ser Ile Met Lys Ser Cys Trp Arg Trp Arg Glu Ala
143 355 360 365
144 Asp Arg Pro Ser Pro Arg Glu Leu Arg Leu Arg Leu Glu Ala Ala Ile
145 370 375 380
146 Lys Thr Ala Asp Asp Glu Ala Val Leu Gln Val Pro Glu Leu Val Val

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147      385      390      395      400
148      Pro Glu Leu Tyr Ala Ala Val Ala Gly Ile Arg Val Glu Ser Leu Phe
149              405      410      415
150      Tyr Asn Tyr Ser Met Leu
151              420
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 15
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo Sapiens
157 <400> SEQUENCE: 4
158      Glu Ala Asp Arg Pro Ser Pro Arg Glu Leu Arg Leu Arg Leu Glu
159      1              5      10      15
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 27
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: PCR Primer
167 <400> SEQUENCE: 5
168      gccgtcgact gtgggcctag cagggaa
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 27
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: PCR Primer
176 <400> SEQUENCE: 6
177      gccgcggccg ctcaaagcat gctatag

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VERIFICATION SUMMARY

DATE: 08/23/2002

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Input Set : N:\Crf3\RULE60\10040884.raw

Output Set: N:\CRF3\08232002\J040884.raw